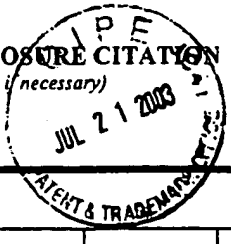


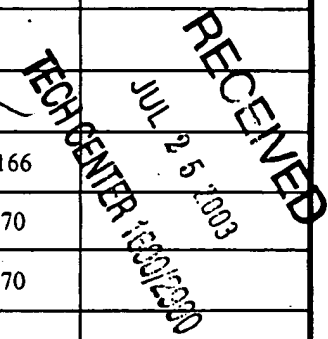
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Docket Number (Optional) KER020/4-005CON	Application Number 09/899,372
Applicant(s) Mark E. Van Dyke, et al.	
Filing Date July 2, 2001	Group Art Unit 1615

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>J</i>	A130	922,692	05/12/09	Thermoplastic keratin composition			
	A131	926,999	07/06/09	Process of producing digestible substances from keratin			
	A132	960,914	06/07/10	Pills for the treatment of diabetes mellitus			
	A133	3,642,498	02/15/72	Method of preparing keratin-containing films and coatings	99	166	
	A134	4,423,032	12/27/83	Hair treatments	424	70	
	A135	4,495,173	01/22/85	Pre-shampoo type hair treatment composition	424	70	
	A136	4,570,629	02/18/86	Hydrophilic biopolymeric copolyelectrolytes, and biodegradable wound dressing comprising same	128	156	
	A137	4,751,074	06/14/88	Hair rinse composition	424	70	
	A138	4,895,722	01/23/90	Hair treatments	424	71	
<i>J</i>	A139	5,047,249	09/10/91	Compositions and methods for treating skin conditions and promoting wound healing	424	543	



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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
B1	Rothman, et al., "Wound healing promoting compositions containing film-forming proteins," PCT Int. Appl., 46 pp., Abstract						
B2	Koga, et al., "Wound dressing materials from treated animal fibers," Eur. Pat. Appl., 6 pp., Abstract						
B3	Wallace, et al., "Fragmented polymeric hydrogels for adhesion prevention and their preparation," PCT Int. Appl., 54 pp., Abstract						
B4	Ichikawa, et al., "Manufacture of keratin films," Jpn. Kokai Tokkyo Koho, 3 pp., Patent No. JP/04091138, Abstract						

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<i>J</i>	C8	Thomas et al., "Isolation of microfibrillar proteins of wool in disulfide form," Melliand Textiberichte, 65(3):20809, 1984
<i>J</i>	C9	van de Löcht, "Reconstitution of microfibrils from wool and filaments from epidermis proteins," Melliand Textiberichte, 10:780-6, 1987

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INFORMATION DISCLOSURE PRECIPITATION (Use several sheets if necessary)		Docket Number (Optional)	Application Number
		KER020/4-005CON	09/899,372
*EXAMINER PATENT & TRADEMARK OFFICE		Applicant(s)	Group Art Unit
		Mark E. Van Dyke, et al.	373
JUL 21 2003 PATENT & TRADEMARK OFFICE		Filing Date	TECH CENTER 1800/2200 JUL 25 2003 RECEIVED
		March 8, 2001	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
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	C11	Yoshioka et al., "Water-soluble hair dressing agent," unexamined Japanese Patent Application No. 8-157342, June 18, 1996	
	C12	Hyuku et al., "Novel amino acid silicone polymer, production thereof, cosmetic particles surface treated with the polymer, and cosmetic containing said particles," unexamined Japanese Patent Application No. 2001-114647, April 24, 2001	
	C13	Ito et al., "Biocompatibility of denatured wool keratin," 39:4, 249-256, April 1982	
	C14	Yamauchi, "The development of keratin: characteristics of polymer films," <i>Fragrance J</i> , 21(5), 62-7, 1993	
	C15	Sauk et al., "Reconstitution of cytokeratin filaments in vitro: further evidence for the role of nonhelical peptides in filament assembly," <i>The Journal of Cell Biology</i> , 99, 1590-1597, November 1984	
	C16	Weber et al., "The structural relation between intermediate filament proteins in living cells and the α -keratins of sheep wool," <i>The EMBO Journal</i> , 1:10, 1155-1160, 1982	
	C17	Hanukoglu et al., "The cDNA sequence of a human epidermal keratin: divergence of sequence but conservation of structure among intermediate filament proteins," <i>Cell</i> , 31, 243-252, November 1982	
	C18	Fraser et al., "Intermediate filaments in α -keratins," <i>Proc. Natl. Acad. Sci. USA</i> , 83, 1179-1183, March 1986	
	C19	Jones, "Studies on microfibrils from α -keratin," <i>Biochimica et Biophysica Acta</i> , 446, 515-524, Received April 5th, 1976.	
	C20	Zackroff, et al., "In vitro assembly of intermediate filaments from baby hamster kidney (BHK-21) cells," <i>Proc. Natl. Acad. Sci. USA</i> , 76:12, 6226-6230, December 1979	
JF	C21	Mack, et al., "Solid-state NMR studies of the dynamics and structure of mouse keratin intermediate filaments," <i>Biochemistry</i> , 27, 5418-5426, 1988	
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<p style="text-align: center;">INFORMATION DISCLOSURE CITATION (Use separate sheets if necessary)</p> <p style="text-align: center;">JUL 21 2003</p>		Docket Number (Optional)	Application Number
		KER020/4-005 CON	09/8'99, 372
		Applicant(s)	
*EXAMINER INITIAL		Mark E. Van Dyke, et al.	Group Art Unit
		Filing Date	3738
		March 8, 2001	
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↑	C23	Kvedar, et al., "Cytokeratins of the bovine hoof: classification and studies on expression," <i>Biochimica et Biophysica Acta</i> , 884, 462-473, 1986	
	C24	Moll, et al., "The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors and cultured cells," <i>Cell</i> , 31, 11-24, November 1982	
	C25	Iwatsuki, et al., "Comparative studies on naturally occurring antikeratin antibodies in human sera," <i>The Journal of Investigative Dermatology</i> , 87:2, 179-184, August 1986	
	C26	Lambré, et al., "An enzyme immunoassay for auto-antibodies to keratin in normal human serum and in pleural fluids from patients with various malignant or non-malignant lung diseases," <i>J. Clin. Lab. Immunol.</i> , 20, 171-176, 1986	
	C27	Stokes, et al., "Passage of water and electrolytes through natural and artificial keratin membranes," <i>Desalination</i> , 42, 321-328, 1982	
	C28	Dedeurwaerder, et al., "Selective extraction of a protein fraction from wool keratin," <i>Nature</i> , 265, 48-49 and 274-276, January 20, 1977	
	C29	Brunner, et al., "Fractionation of tyrosine-rich proteins from oxidized wool by ion-exchange chromatography and preparative electrophoresis," <i>Eur. J. Biochem.</i> , 32, 350-355, 1973	
	C30	Mies, et al., "Chromatographic and electrophoretic investigations of the properties of unprotected low-sulphur wool kerateins," <i>Journal of Chromatography</i> , 405, 365-370, 1987	
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J	C33	Harrap, et al., "Species differences in the proteins of feathers," <i>Comp. Biochem. Physiol.</i> , 20, 449-460, 1967	
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INFORMATION DISCLOSURE CITATION (Use reverse sheets if necessary)		Docket Number (Optional) KER020/4-025CON	Application Number 09/899/372
		Applicant(s) Mark E. Van Dyke, et al.	
		Filing Date March 8, 2001	Group Art. No. 158
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
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	C35	Yoshimizu, et al., " ¹³ C CP/MAS NMR study of the conformation of stretched or heated low-sulfur keratin protein films," <i>Macromolecules</i> , 24, 862-866, 1991	
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	C37	Weiss, et al., "The use of monoclonal antibody to keratin in human epidermal disease: alterations in immunohistochemical staining pattern," <i>The Journal of Investigative Dermatology</i> , 81, 224-230, 1983	
	C38	Starger, et al., "Biochemical and immunological analysis of rapidly purified 10-nm filaments from baby hamster kidney (BHK-21) cells," <i>J. Cell Biology</i> , 78, 93-109, 1978	
	C39	Noishiki, et al., "Application of denatured wool keratin derivatives to an antithrombogenic biomaterial—vascular graft coated with a heparinized keratin derivative—," <i>Inst. Thermal Spring Res. Okayama Univ.</i> , 39:4, 221-227, 1982	
	C40	Valherie, "Chemical modifications of keratins. Application to the preparation of biomaterials and study of their physical, physicochemical and biological properties," Ph.D. Thesis presented to the National Institute of Applied Sciences of Lyon, 1992	
	C41	Dale, "Keratin and other coatings for pills," <i>Pharm. J.</i> , 129, 494-495, 1932, Abstract	
	C42	Schrooyen, et al., "Biodegradable films from selectively modified feather keratin dispersions," <i>Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)</i> , 39(2), 160, 1998, Abstract	
	C43	Schrooyen, et al., "Polymer films from chicken feather keratin," Book of Abstracts, 216th ACS National Meeting, Boston, August 23-27, 1998, Abstract	
	C44	Kikkawa, et al., "Solubilization of keratin. 6. Solubilization of feather keratin by oxidation with performic acid," <i>Hikaku Kagaku</i> , 20(3), 151-162, 1974, Abstract	
C45	Matsunaga, et al., "Studies on the chemical property of human hair keratin. Part 1. Fractionation and amino acid composition of human hair keratin solubilized by performic acid oxidation," <i>Hikaku Kagaku</i> , 27(1), 21-29, 1981, Abstract		
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Docket Number (Optional) KER020/4-005CON	Application Number 09/899,377
Applicant(s) Mark E. Van Dyke, et al.	
Filing Date March 8, 2001	Group Art Unit 3738

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↑	C47	Ito, et al., "Biocompatibility of denatured keratins from wool," <i>Kobunshi Ronbunshu</i> , 39(4), 249-256, 1982, Abstract
↑	C48	Gillespie, et al., "Amino acid composition of a sulphur-rich protein from wool," <i>Biochimica et Biophysica Acta</i> , 39, 538-539, 1960
↑	C49	Gough, et al., "Amino acid sequences of α -helical segments from <i>S</i> -carboxymethylkerateine-A. Complete sequence of a type-I segment," <i>Biochem. J.</i> , 173, 373-385, 1978
↑	C50	Elleman, et al., "Amino acid sequences of α -helical segments from <i>S</i> -carboxymethylkerateine-A. Statistical analysis," <i>Biochem. J.</i> , 173, 387-391, 1978
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↑	C54	Fraser, et al., "Microscopic observations of the alkaline-thioglycollate extraction of wool," <i>Biochimica et Biophysica Acta</i> , 22, 484-485, 1953
↑	C55	Gillespie, et al., "Preparation of an electrophoretically homogeneous keratin derivative from wool," <i>Biochimica et Biophysica Acta</i> , 12, 481-483, 1953
↓	C56	Blagrove, et al., "The electrophoresis of the high-tyrosine proteins of keratins on cellulose acetate strips," <i>Comp. Biochem. Physiol.</i> , 50B, 571-572, 1975
J	C57	Frenkel, et al., "The isolation and properties of a tyrosine-rich protein from wool: component 0.62," <i>Eur. J. Biochem.</i> , 34, 112-119, 1973

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Docket Number (Optional)	Application Number
		KER020/4-005CON	09/899,372
		Applicant(s)	Mark E. Van Dyke, et al.
*EXAMINER INITIAL		Filing Date	Group Art Unit
		March 8, 2001	3738
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g	C58	Marshall, et al., "Successful isoelectric focusing of wool low-sulphur proteins," <i>Journal of Chromatography</i> , 72, 351-356, 1979	
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	C61	Marshall, "Genetic variation in the proteins of human nail," <i>The Journal of Investigative Dermatology</i> , 75:3, 264-269, 1980	
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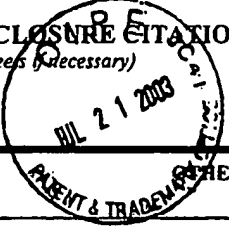
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INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small> 	Docket Number (Optional)	Application Number
	KER020/4-005CON	09/899,372
	Applicant(s)	
	Mark E. Van Dyke, et al.	
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March 8, 2001	3738	

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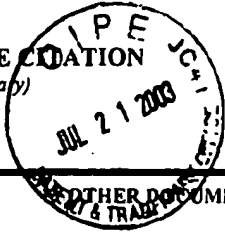
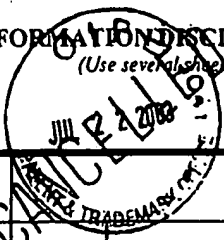
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	C74	Parry, et al., "Structure of α -keratin: structural implication of the amino acid sequences of the type I and type II chain segments," <i>J. Mol. Biol.</i> , 113, 449-454, 1977
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	C78	Rogers, "Some observations on the proteins of the inner root sheath cells of hair follicles," <i>Biochimica et Biophysica Acta</i> , 29, 33-42, 1958
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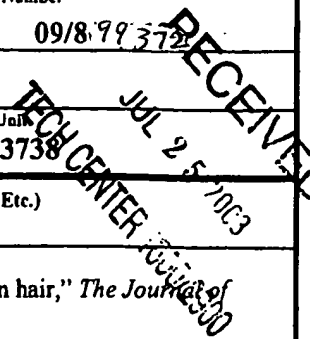
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Docket Number (Optional) KER020/4-005CON	Application Number 09/8,993,72
Applicant(s) Mark E. Van Dyke, et al.	
Filing Date March 8, 2001	Group Art Unit 3738



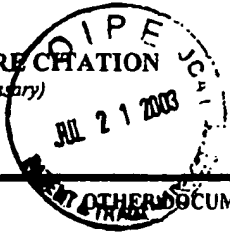
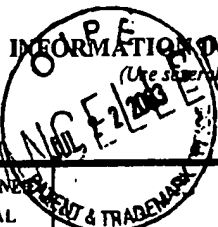
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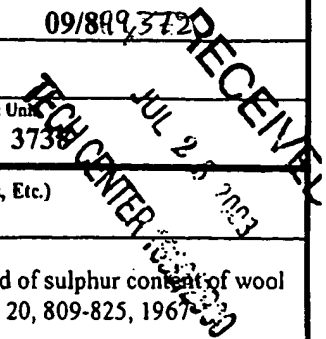
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Docket Number (Optional) KER020/4-005CON	Application Number 09/899,372
Applicant(s) Mark E. Van Dyke, et al.	
Filing Date March 8, 2001	Group Art Unit 3738



*EXAMINER INITIAL OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

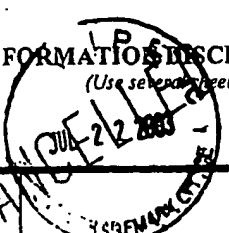
<i>[Handwritten mark]</i>	C106	Reis, "The growth and composition of wool. IV. The differential response of growth and of sulphur content of wool to the level of sulphur-containing amino acids given per abomasum," <i>Aust. J. Biol. Sci.</i> , 20, 809-825, 1967
	C107	Reis, et al., "Effects of phenylalanine and analogues of methionine and phenylalanine on the composition of wool and mouse hair," <i>Aust. J. Biol. Sci.</i> , 38:2, 151-163
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	C110	Reis, "The growth and composition of wool. III. Variations in the sulphur content of wool," <i>Aust. J. Biol. Sci.</i> , 18, 671-687, 1965
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	C113	Gillespie, et al., "The dietary-regulated biosynthesis of high-sulphur wool proteins," <i>Biochem. J.</i> , 98, 669-677, 1966
	C114	Powell, et al., "Characterization of a gene encoding a cysteine-rich keratin associated protein synthesized late in rabbit hair follicle differentiation," <i>Differentiation</i> , 58, 227-232, 1995
	C115	Powell, et al., "Cyclic hair-loss and regrowth in transgenic mice overexpressing an intermediate filament gene," <i>The EMBO Journal</i> , 9:5, 1485-1493, 1990
	C116	Raphael, et al., "Protein and amino acid composition of hair from mice carrying the naked (<i>N</i>) gene," <i>Genet. Res. Camb.</i> , 44:1, 29-38, 1984
<i>[Handwritten mark]</i>	C117	Frenkel, et al., "The keratin BIII B gene family: isolation of cDNA clones and structure of a gene and a related pseudogene," <i>Genomics</i> , 4, 182-191, 1989

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>4/12/05</i>
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Docket Number (Optional)

KER020/4-005CON

Application Number

09/809372

Applicant(s)

Mark E. Van Dyke, et al.

Filing Date

March 8, 2001

Group Art Unit

3738

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*EXAMINER INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

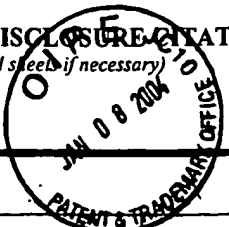
JP	C118	Dowling, et al., "The primary structure of component 8c-1, a subunit protein of intermediate filaments in wool keratin," <i>Biochem. J.</i> , 236, 695-703, 1986
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Y	C120	Kuczek, et al., "Sheep wool (glycine + tyrosine)-rich keratin genes," <i>Eur. J. Biochem.</i> , 166, 79-85, 1987

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DATE CONSIDERED *4/12/05*

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Docket Number (Optional) KER020/4-005CON	Application Number 09/899,372
Applicant(s) Mark E. Van Dyke, et al.	
Filing Date July 2, 2001	Group Art Unit 1615

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>J</i>	A140	1,214,299	01/30/17	Grosvenor et al.			
	A141	2,434,688	11/03/42	Evans	18	47.5	
	A142	2,445,028	07/13/48	Jones et al.	106	155	
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	A144	2,814,851	12/03/57	Hervey	28	82	
	A145	3,033,755	05/08/62	Jacobi et al.	167	90	
	A146	3,655,416	04/11/72	Vinson et al.	106	155	
	A147	4,178,361	12/11/79	Cohen et al.	424	22	
	A148	4,357,274	11/02/82	Werner	260	123.7	
<i>J</i>	A149	4,959,213	09/25/90	Brod et al.	514	21	

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FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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<i>J</i>	B5	SHO 54-124043	02/06/82	Japan	X	X	X	
<i>J</i>	B6	S55-187190	12/26/80	Japan			X	
<i>W</i>	B7	1988-202582	08/13/88	Japan			X	
<i>J</i>	B8	HEI 4-189833	07/08/92	Japan			X	

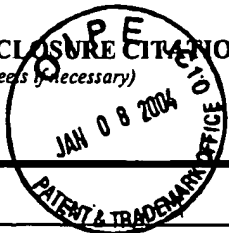
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<i>No date</i>	<i>J</i>	C121	Inagaki, et al., "Functionality of lamb wool keratin derivatives and a few characteristics of polymer materials for medical applications," <i>Chemical Research Institute, Kyoto University</i>
	<i>J</i>	C122	Sakabe, et al., "Differential thermal analysis of component proteins from wool," <i>Sen-I Gakkaishi</i> 39(12): T-517-T-522 (1982)

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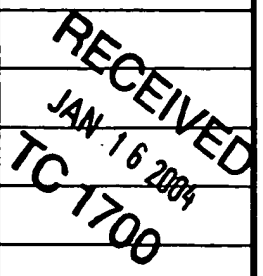
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Docket Number (Optional) KER020/4-005CON	Application Number 09/899,372
Applicant(s) Mark E. Van Dyke, et al.	
Filing Date July 2, 2001	Group Art Unit 1615

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JP	A150	5,320,796	06/14/94	Harashima et al.	264	349	
	A151	5,634,945	06/03/97	Pernia et al.	623	11	
	A152	5,679,819	10/21/97	Jones et al.	556	418	
	A153	5,712,252	01/27/98	Smith	514	21	
	A154	5,763,583	06/09/98	Arai et al.	530	353	
JP	A155	5,300,285	04/05/94	Halloran et al.	424	71	



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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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JP	B9	1992-174659	05/22/92	Japan	X	X	X	
	B10	JP1998337466A	12/22/98	Japan			X	
	B11	JP1994100600A	04/12/94	Japan			X	
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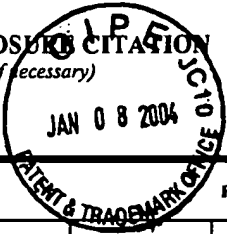
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JP	C124	Kulkarni, "Further studies on the microfibrils from wool keratin. Part I: the isolation of microfibrils," Text. Res. J., 46:11, 833-5, 1976, Abstract
JP	C125	Edwards, "Chemical studies on powdered keratins," The Journal of Biological Chemistry, 154, 593-596, 1944

EXAMINER <i>Sis Ghah</i>	DATE CONSIDERED <i>4/12/05</i>
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Filing Date July 2, 2001	Group Art Unit 1615

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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<i>JP</i>	B14	JP1993285374A	11/02/93	Japan			X	
<i>JP</i>	B15	JP1993285375A	11/02/93	Japan			X	
<i>JP</i>	B16	63-47470	09/22/88	Japan				X
<i>JP</i>	B17	62-1731	01/14/87	Japan				X
<i>JP</i>	B18	2001-114647	04/24/01	Japan				X
<i>JP</i>	B19	8-157342	06/18/96	Japan				X
<i>JP</i>	B20	60-220068	11/02/85	Japan				X
<i>JP</i>	B21	3-223207	10/02/91	Japan				X
<i>JP</i>	B22	6-240579	08/30/94	Japan				X
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<i>JP</i>	B25	11-240822	09/07/99	Japan				X
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	B27	WO 03/011894 A1	02/13/03	<i>PCT WO</i>				
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	B33	JP 2001087754	04/0301	Japan			Abstract	
	B34	0 454 600 A1	10/30/91	Europe			Abstract	
	B35	RU 2106154	03/10/98	Russia			Abstract	
	B36	RU 2108079	04/10/98	Russia			Abstract	
	B37	EP 0540357	07/24/96	Europe				
	B38	EP 0628573	12/14/94	Europe				

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